Notice of Allowability	Application No.	Applicant(s)
	10/613,598	TAKANO, KENICHI
	Examiner	Art Unit
	Tianjie Chen	2627
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>RCE filed on 08/09/2007</u> .		
2. The allowed claim(s) is/are <u>1-32</u> .		
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the 		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	5 Notice of Informal B	atant Application
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 	5. ☐ Notice of Informal P6. ☐ Interview Summary	• •
3. Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Dat 7.	e .
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit		ent of Reasons for Allowance
of Biological Material	9.	~
		Men Simple TIANJIE CHEN PRIMARY EXAMINER

U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06)

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submissions filed on 06/28/2007 and 08/09/2007 has been entered. Claims 1-32 are pending.

REASONS FOR ALLOWANCE

2. Claims 1-32 are allowed.

The following is an examiner's statement of reasons for allowance:

• With regard to independent claims 17 and 1, as the closest reference of record, Gill (US 6,822,836) discloses a magnetic read head having a free layer with enhanced stability and signal strength, comprising: a pair of opposing permanent magnet layers, separated by a first gap and magnetized in a first direction, that abut, and do not overlap in any way, including through direct connection to another magnetic material, said free layer, thereby providing longitudinal bias thereto; above said permanent magnet layers, a pair of opposing additional bias layers that are separated by a second gap that is less than said first gap; but fails to show said additional bias layers being magnetized in a second direction that is antiparallel to said first direction, thereby partly canceling said longitudinal bias with no accompanying weakening of the free layer at the free layer edge.

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• With regard to independent claims 25 and 9, as the closest reference of record, the combination of Gill (US 6,822,836) and Nagasaka et al (US 2003/0123200) discloses a magnetic read head having a free layer with enhanced stability and signal strength, comprising: a pair of opposing permanent magnet layers, separated by a first gap and magnetized in a first direction, that abut, and do not overlap in any way, including through direct connection to another magnetic material, said free layer, thereby providing longitudinal bias thereto; a distance below said permanent magnet layers, a pair of opposing additional bias layers that are separated by a second gap that is less than said first gap; but fails to show that said additional bias layer being magnetized in a second direction that is antiparallel to said first direction, thereby partly canceling said longitudinal bias with no accompanying weakening of the free layer at the free layer edge.

 Applicant asserts; "an object of at least one embodiment of the present invention to provide a magnetic read head device whose output is both stable as well as unaffected by the steps taken to achieve said stability" (Specification, p. 5).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tianjie Chen whose telephone number is 571-272-7570. The examiner can normally be reached on 8:00-4:30, Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Nguyen can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TIANJIE CHEN PRIMARY EXAMINER